

MHs49 Southern Wet-Mesic Hardwood Forest Pollinator Resources

Rich, wet-mesic lowland hardwood forests on level silty alluvium in stream valleys and on level glacial till bordering lakes. Sites are protected from fire, and soils remain moist throughout the growing season.

Examples of insect pollinators (and their associated host plants in parentheses) that use MHs49 include:

Bees:

- Andrena melanochroa* (Rosaceae)
- Andrena geranii* (*Hydrophyllum virginianum*)
- Andrena distans* (*Geranium maculatum*)
- Andrena erythronii* (*Erythronium albidum*)

Butterflies:

- Aglais milberti* (*Urtica dioica*)
- Argynnis cybele* (*Viola*)
- Asterocampa celtis* (*Celtis occidentalis*)

Moths:

- Sphinx canadensis* (*Fraxinus nigra*)
- Parectopa geraniella* (*Geranium maculatum*)
- Agonopterix nigrinotella* (*Zanthoxylum americanum*)



Andrena distans uses *Geranium maculatum* (wild geranium) as a host plant. Photo: Heather Holm

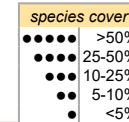


Asterocampa celtis (hackberry emperor) uses *Celtis occidentalis* (hackberry) as a host plant. Photo: Bob Dunlap

MHs49 Southern Wet-Mesic Hardwood Forest

Pollinator Resources Table

MHs49 Class Factsheet. Based on 39 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Virginia waterleaf (<i>Hydrophyllum virginianum</i>)	90	●●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Cleavers (<i>Galium aparine</i>)	85	●●●	SC	Annual	Absent	insects	Early spring insect	5
Wood nettle (<i>Laportea canadensis</i>)	82	●●●	UNK	Perennial	Present	wind	Generalist	0
Blue phlox (<i>Phlox divaricata</i>)	69	●	SI	Perennial	Weakly	insects	Early spring insect, Somewhat specific insect	5
Blue cohosh (<i>Caulophyllum thalictroides</i>)	64	●	SC/SI	Perennial	Present	insects	Early spring insect	4
White avens (<i>Geum canadense</i>)	64	●	UNK	Perennial	Present	insects	Generalist	3
Wild geranium (<i>Geranium maculatum</i>)	64	●●	SC	Perennial	Present	insects	Early spring insect	3
False rue anemone (<i>Enemion biternatum</i>)	59	●●●	SC	Perennial	Weakly	insects	Early spring insect	3
Wild ginger (<i>Asarum canadense</i>)	56	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Wild leek (<i>Allium tricoccum</i>)	56	●●	SC	Perennial	Present	insects	Generalist	2
Stemless blue violets (<i>Viola</i> spp.)*	56	●	Varies	Perennial	Present	insects	Varies	Varies
Clayton's sweet cicely (<i>Osmorhiza claytonii</i>)	54	●●	D	Perennial	Absent	insects	Generalist	5
Rugulose or Yellow violet (<i>Viola canadensis</i> or <i>V. pubescens</i>)	51	●	Varies	Perennial	Present	insects	Varies	Varies
Honewort (<i>Cryptotaenia canadensis</i>)	49	●●	SC	Perennial	Present	insects	Generalist	2
Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)	49	●	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Dutchman's breeches (<i>Dicentra cucullaria</i>)	46	●	SI/sc	Perennial	Present	insects	Early spring insect, Somewhat specific insect	4
Bloodroot (<i>Sanguinaria canadensis</i>)	46	●	SC	Perennial	Present	insects	Early spring insect	3
Stinging nettle (<i>Urtica dioica</i>)	46	●	D	Perennial	Present	wind	Generalist	0
Common false Solomon's seal (<i>Smilacina racemosa</i>)	46	●	UNK	Perennial	Present	insects	Early spring insect	4
Zigzag goldenrod (<i>Solidago flexicaulis</i>)	46	●	SI	Perennial	Present	insects	Generalist	4
White trout lily (<i>Erythronium albidum</i>)	44	●●	SC	Perennial	Present	insects	Early spring insect	3
Aniseroot (<i>Osmorhiza longistylis</i>)	44	●●	D	Perennial	Absent	insects	Generalist	5
Erect, Smooth, or Illinois carrion-flower (<i>Smilax</i> spp.)*	41	●	D	Perennial	Present	insects	Somewhat specific insect	5
Hispid buttercup (<i>Ranunculus hispidus</i>)	41	●●	SI	Perennial	Present	insects	Early spring insect	5
Tall coneflower (<i>Rudbeckia laciniata</i>)	38	●	SC	Perennial	Present	insects	Generalist	2
Virginia spring beauty (<i>Claytonia virginica</i>)	38	●	SC	Perennial	Present	insects	Early spring insect	3
Sharp-lobed hepatica (<i>Anemone acutiloba</i>)	36	●	SC	Perennial	Present	insects	Early spring insect	3
Large-flowered bellwort (<i>Uvularia grandiflora</i>)	36	●	SI	Perennial	Present	insects	Early spring insect	5
Touch-me-not (<i>Impatiens</i> spp.)	33	●	SI/SC	Annual	Absent	insects	Somewhat specific insect	6
Mayapple (<i>Podophyllum peltatum</i>)	31	●	SI/sc	Perennial	Present	insects	Somewhat specific insect	4
Common enchanter's nightshade (<i>Circaea lutetiana</i>)	31	●	SC	Perennial	Present	insects	Generalist	2
Cut-leaved toothwort (<i>Cardamine concatenata</i>)	26	●	UNK	Perennial	Present	insects	Early spring insect	4
Drooping trillium (<i>Trillium flexipes</i>)	26	●	A	Perennial	Present	insects	Early spring insect	3
Appendaged waterleaf (<i>Hydrophyllum appendiculatum</i>)	21	●●	SC	Biennial	Absent	insects	Early spring insect, Somewhat specific insect	5
Grasses and Sedges								
Bottlebrush grass (<i>Elymus hystrix</i>)	38	●●	UNK	Perennial	Absent	wind	Generalist	0
Hairy-leaved sedge (<i>Carex hirtifolia</i>)	36	●	SC	Perennial	Present	wind	Generalist	0

Grasses and Sedges								
Sprengel's sedge (<i>Carex sprengei</i>)	36	●●	UNK	Perennial	Present	wind	Generalist	0
White bear sedge (<i>Carex albursina</i>)	36	●	UNK	Perennial	Present	wind	Generalist	0
Bland sedge (<i>Carex blanda</i>)	31	●	UNK	Perennial	Present	wind	Generalist	0
Ambiguous sedge (<i>Carex amphibola</i>)	28	●	UNK	Perennial	Present	wind	Generalist	0
Climbing Plants								
Virginia creeper (<i>Parthenocissus</i> spp.)	36	●	SC	Perennial	Present	insects	Generalist	2
Shrubs								
Chokecherry (<i>Prunus virginiana</i>)	72	●	SI	Perennial	Present	insects	Early spring insect	5
Missouri gooseberry (<i>Ribes missouriense</i>)	67	●●	SI	Perennial	Present	insects	Generalist	4
Prickly ash (<i>Zanthoxylum americanum</i>)	38	●●	D	Perennial	Present	insects	Generalist	4
Nannyberry (<i>Viburnum lentago</i>)	36	●	SI	Perennial	Present	insects	Generalist	4
Prickly gooseberry (<i>Ribes cynosbati</i>)	36	●●	SI	Perennial	Present	insects	Generalist	4
Hawthorn (<i>Crataegus</i> spp.)	33	●	Varies	Perennial	Absent	insects	Early spring insect	Varies
Pagoda dogwood (<i>Cornus alternifolia</i>)	33	●	UNK	Perennial	Present	insects	Generalist	3
Red-berried elder (<i>Sambucus racemosa</i>)	28	●●	UNK	Perennial	Present	insects	Generalist	3
Tree Canopy								
Basswood	87	●●●	SI	Perennial	Absent	insects	Generalist	5
Black ash	64	●●●	D	Perennial	Absent	wind	Generalist	0
Sugar maple	62	●●●●	D	Perennial	Absent	insects	Early spring insect	6
American elm	59	●●●	Di	Perennial	Absent	wind	Generalist	0
Hackberry	51	●●	SC	Perennial	Absent	wind	Generalist	0
Red elm	46	●●●	Di	Perennial	Absent	wind	Generalist	0
Green ash	33	●	D	Perennial	UNK	wind	Generalist	0
Box elder	31	●●●	D	Perennial	Absent	insects	Early spring insect	6
Bur oak	23	●●●●	SI	Perennial	Present	wind	Generalist	0
Rock elm	21	●●●	Di	Perennial	Absent	wind	Generalist	0
Ironwood	21	●	UNK	Perennial	Present	wind	Generalist	0
Butternut	18	●●	SI/sc	Perennial	UNK	wind	Generalist	0
Bitternut hickory	18	●●●	UNK	Perennial	Present	wind	Generalist	0
Blue beech	15	●	UNK	Perennial	Present	wind	Generalist	0
Tree Subcanopy								
Basswood	56	●●	SI	Perennial	Absent	insects	Generalist	5
Black ash	46	●●	D	Perennial	Absent	wind	Generalist	0
Sugar maple	64	●●●	D	Perennial	Absent	insects	Early spring insect	6
American elm	54	●●	Di	Perennial	Absent	wind	Generalist	0
Hackberry	56	●●	SC	Perennial	Absent	wind	Generalist	0
Red elm	41	●●●	Di	Perennial	Absent	wind	Generalist	0
Green ash	18	●	D	Perennial	UNK	wind	Generalist	0
Box elder	36	●●	D	Perennial	Absent	insects	Early spring insect	6

Bur oak	15	•	SI	Perennial	Present	wind	Generalist	0
Rock elm	23	•	Di	Perennial	Absent	wind	Generalist	0
Ironwood	51	••	UNK	Perennial	Present	wind	Generalist	0
Butternut	10	•	SI/sc	Perennial	UNK	wind	Generalist	0
Bitternut hickory	41	•	UNK	Perennial	Present	wind	Generalist	0
Blue beech	26	••	UNK	Perennial	Present	wind	Generalist	0
Tree Shrub Layer								
Basswood	49	•	SI	Perennial	Absent	insects	Generalist	5
Black ash	38	•	D	Perennial	Absent	wind	Generalist	0
Sugar maple	41	•	D	Perennial	Absent	insects	Early spring insect	6
American elm	23	•	Di	Perennial	Absent	wind	Generalist	0
Hackberry	36	•	SC	Perennial	Absent	wind	Generalist	0
Red elm	26	••	Di	Perennial	Absent	wind	Generalist	0
Green ash	15	•	D	Perennial	UNK	wind	Generalist	0
Box elder	18	•	D	Perennial	Absent	insects	Early spring insect	6
Bur oak	15	•	SI	Perennial	Present	wind	Generalist	0
Rock elm	8	•	Di	Perennial	Absent	wind	Generalist	0
Ironwood	23	•	UNK	Perennial	Present	wind	Generalist	0
Butternut	-	-	SI/sc	Perennial	UNK	wind	Generalist	0
Bitternut hickory	36	•	UNK	Perennial	Present	wind	Generalist	0
Blue beech	15	•	UNK	Perennial	Present	wind	Generalist	0

* Stemless blue violets (*Viola sororia*, *V. nephrophylla*, and similar *Viola* spp.); Erect, Smooth, or Illinois carrion-flower (*Smilax ecirrata*, *S. herbacea*, or *S. illinoensis*)